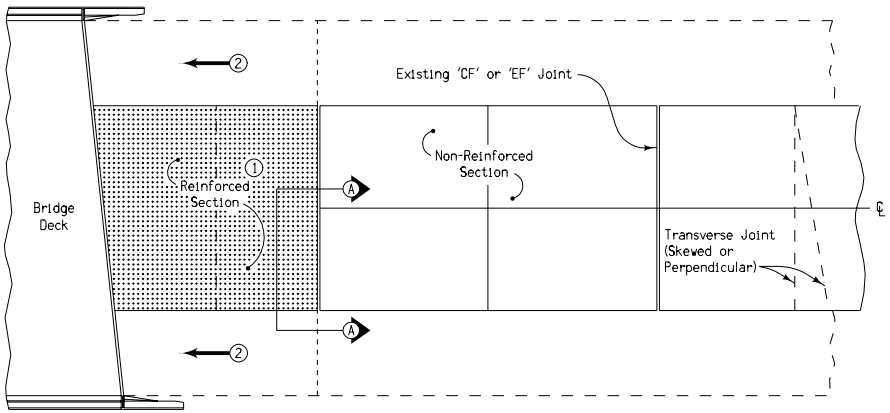
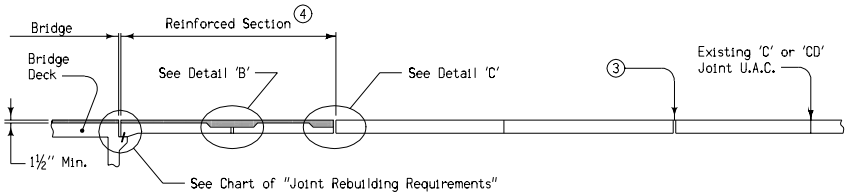
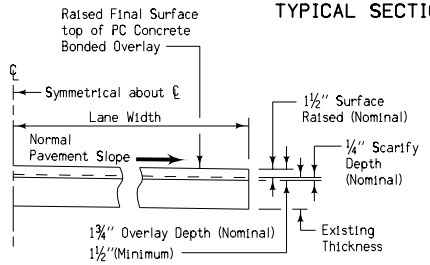


TYPICAL PLAN VIEW



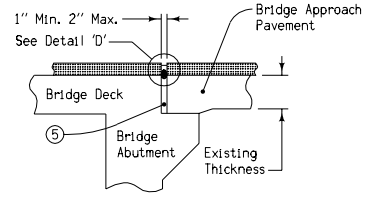
TYPICAL SECTION THRU CENTERLINE



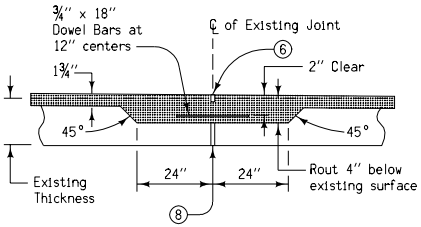
SECTION A-A

JOINT REBUILDING REQUIREMENTS	
EXISTING JOINT WIDTH	CONSTRUCTION METHOD REQUIRED
0 to 1"	Cut to 1½" width See Detail 'A'
1" to 2"	See Detail 'A'
Greater than 2"	See Detail 'E'

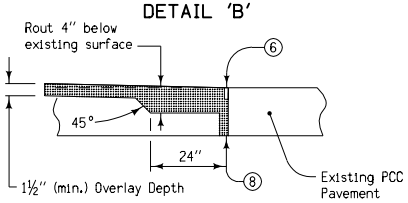
1. Remove HMA Resurfacing if present. The cost of removal is considered incidental to "Bridge Floor Overlay" as detailed hereon.
2. Existing shoulder elevation to be raised to match new pavement grade.
3. At first existing 'CF' or 'EF' joint beyond PCC Overlay area, clean joint, trim to 3–3/4" ±1/2" and install preformed joint material 4–1/2" ±1/8" wide x pavement thickness minus 1" deep with lubricant adhesive. See Materials I.M. 436.05 for list of approved materials.
4. Reinforced bridge approach section overlay "Runout" slope not to exceed 1" in 25' from profile grade.
5. Existing Joint, remove all expansion material and clean joint area. (Not to be overlaid and saw cut)
6. Saw and seal over existing joint; see Detail 'B' on Standard Road Plan RH–51
7. 1" Preformed Resilient Joint Material
8. Existing joint, remove all expansion material and fill with overlay material.



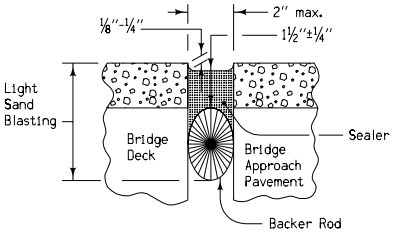
DETAIL 'A'



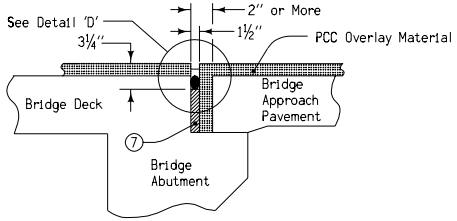
DETAIL 'B'



DETAIL 'C'



DETAIL 'D'



DETAIL 'E'
Where Existing Joint is greater than 2"

GENERAL NOTES:

This plan shows construction details of a PCC Overlay on a bridge approach section to match the thickness of the bridge deck overlay.

After undersealing (by others), the following work is to be accomplished one half of the approach width at a time while traffic is maintained in the adjacent lanes. The work is to proceed in the following sequence:

1. Rout out existing joints as detailed in the plans.
2. Scarify to the minimum depth of 1/4" the existing PCC surface of the reinforced bridge approach section. The scarification shall be deep enough to provide a minimum overlay thickness of 1–1/2".
3. Overlay the scarified approach pavement with PC Concrete in compliance with Section 2413. The existing joint at the bridge end shall not be overlaid and cut out by saw. The method used shall be approved by the Engineer.
4. Install sealed joint at the bridge end and at the locations of overlaid existing joints as detailed on this sheet.
5. Trim the first existing 'CF' joint beyond the resurfaced area to a uniform 3–3/4" ± 1/2" width, clean joint and install new preformed joint material with lubricant adhesive.

Routing at joints will be measured and paid for as "Class A Bridge Floor Repairs" in compliance with Section 2413. Scarification deeper than 1/4" to provide a minimum overlay depth of 1–1/2" shall not be paid for separately, but shall be incidental to "Bridge Floor Overlay". See Details 'B' and 'C' on this sheet.

Scarifying and overlaying of the bridge approach pavement with PC Concrete shall be paid for at the contract unit price for "Bridge Floor Overlay" as specified in Section 2413. This item shall include all extra depth scarification to provide a minimum overlay thickness of 1–1/2".

Installing sealed joints at the bridge end and at locations of existing joints that are overlaid shall not paid for separately, but shall be incidental to "Bridge Floor Overlay." See details on this sheet.

Install "EF" joint according to Detail Sheet 532–9 if required.

For raising HMA shoulders to match the PCC overlay of the bridge approach pavement, Class II compaction is required as specified in Section 2303. Asphalt binder and tack coat are considered incidental.

"Granular Shoulders, Type B" shall be constructed according to Section 2121 when other than paved shoulders exist.

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN | **RK-17**

REVISION: Change ACC to HMA

REVISION NO. 5

REVISION DATE 10-02-01

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

PCC OVERLAY OF REINFORCED BRIDGE APPROACH SECTION